

# Central<sup>TM</sup> Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA  
Tel: (631) 435-1110 • Fax: (631) 435-1824

Manufacturers of World Class Discrete Semiconductors

CMPD200  
CMPD300  
CMPD400

**FORWARD REFERENCE DIODE  
(STABISTOR)  
JEDEC DO-35 CASE**

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CMPD200 series types are multi-chip silicon diodes mounted in a JEDEC DO-35 case. These devices are designed for applications requiring controlled forward voltage characteristics such as voltage regulation, sensing, and comparing. This series is a direct replacement for the MPD200, MPD300, and MPD400 respectively.

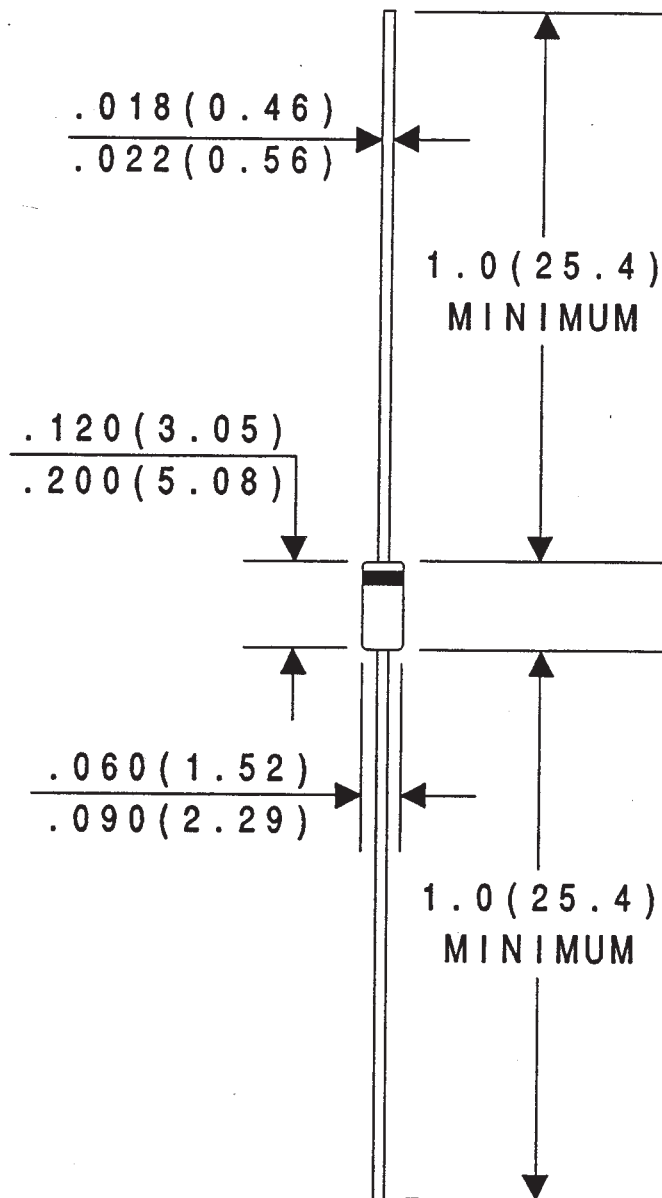
## MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ )

	<u>SYMBOL</u>		<u>UNITS</u>
Power Dissipation	$P_D$	400	mW
Operating and Storage Junction Temperature	$T_J, T_{STG}$	-65 to + 150	$^\circ\text{C}$

## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>CMPD200</u>		<u>CMPD300</u>		<u>CMPD400</u>		<u>UNITS</u>
		<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	<u>MIN</u>	<u>MAX</u>	
$I_R$	$V_R=30\text{V}$		300		300		300	nA
$BV_R$	$I_R=5.0\mu\text{A}$	30		60		90		V
$V_F$	$I_F=10\mu\text{A}$	0.90	1.00	1.40	1.54	1.82	2.01	V
$V_F$	$I_F=100\mu\text{A}$	1.05	1.16	1.62	1.78	2.14	2.36	V
$V_F$	$I_F=1.0\text{mA}$	1.22	1.34	1.84	2.03	2.47	2.71	V
$V_F$	$I_F=10\text{mA}$	1.39	1.54	2.10	2.33	2.80	3.07	V
$V_F$	$I_F=100\text{mA}$	1.60	1.76	2.40	2.65	3.16	3.49	V

# JEDEC DO-35 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).